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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/474,660	12/29/1999	JAMES L. LANSFORD	42390.P7301	2532
7590 08/14/2002 DAVID J KAPLAN BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 90025			EXAMINER.	
			BANGACHON, WILLIAM L	
			ART UNIT	PAPER NUMBER
			2635	`

DATE MAILED: 08/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		HG				
	Application No.	Applicant(s)				
·	09/474,660	LANSFORD ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this control of the	William L Bangachon	2635				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 10 h	<u>1ay 2002</u> .					
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) \boxtimes The drawing(s) filed on <u>29 <i>December 1999</i></u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage 3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

Application/Control Number: 09/474,660 Page 2

Art Unit: 2635

DETAILED ACTION

Examiner's Response

1. In response to the amendment filed 10 May 2002, the application has been examined. Claims 17 and 22 amended and new claims 25-30 are added. The Examiner has considered the presentation of the amended and new claims in view of the disclosure and the present state of the prior art. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "HomeRF device", the "Bluetooth device", "contention-free period", "a computer system programmed to implement the method of claim 10", and "set of instructions" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 09/474,660 Page 3

Art Unit: 2635

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2635

7. Claims 1-14, 16-17, 21-23 and 25, are rejected under 35 U.S.C. 102(b) as being

anticipated by US 4,850,036 (Smith).

With regards to claims 1-6 and 9, Smith teaches of a method of communicating

between electronic devices (see whole document) comprising:

operating a first device (CM) at a first hopping frequency (SF0) during a first

period of time (T0) and at a second hopping frequency (SF1) during a second period of

time (T1);

operating a second device (S1) at the first hopping frequency (SF0), the second

device (S1) communicating with the first device (CM) during the first period of time (T0);

and

operating a third device (S2) at the second hopping frequency (SF1), the third

device (S2) communicating with the first device during the second period of time (T1).

See column 8, lines 41-65. The communication between the first and second devices

and the first and third devices are clearly during contention-free periods because the

third and second devices have non-overlapping or assigned frequencies by which to

communicate with the first device at any given time (col. 7, lines 3-5; col. 9, lines 17-21).

In claims 7 and 8 (refer to figures 3 and 4), sending a signal (303 or 404) from

the third device to the first device, the signal requesting communication with the first

device; and determining a time frame (304 or 405) for the second period of time in

Page 4

Art Unit: 2635

response to receiving the signal and indicating the time frame to the second device. See col. 4, lines 60-65; col. 5, lines 21-35.

Claims 10-14 recites the claim limitations of claims 1-9 and therefore rejected for the same reasons.

In claims 16 and 21-23 and 25, a computer system (figure 1, 100) programmed to implement the method of claim 10.

Claim 17 recites the claim limitations of claims 1-9 and 16 and therefore rejected for the same reasons further comprising a transmitter (130) and a processor/CPU (102)

8. Claims 15, 18-20, 24 and 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,850,036 (Smith) in view of US 5,241,542 (Nataranjan et al).

In claims 15, 18-20 and 24, Smith does not disclose expressly the first and second devices as a Bluetooth device and a HomeRF device. Nataranjan et al, in the same field of endeavor (see field of invention), teach that multi-access protocol in a wireless link is conventional (background of the invention). Although the devices in the system of Nataranjan et al are handheld or portable computers with wireless communication capabilities, such protocols would include Bluetooth and HomeRF to one of ordinary skill in the art. A multi-access protocol such a Bluetooth and HomeRF would have been obvious in the system of Smith because the system of Smith is

Art Unit: 2635

capable of both voice or data communications and a variety of communication systems having different operating characteristics can be accommodated (Smith, col. 3, lines 18-27). Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to have a scheduled multi-access protocol such as Bluetooth and HomeRF in the system of Smith, as evidenced by Nataranjan et al, because the system of Smith can accommodate a variety of communication systems having different operating characteristics and is capable of both voice or data communications.

Claims 26-30 recites the combination of claims 10-15 and therefore rejected for the same reasons.

9. Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,414,731 (Antunnes et al) in view of US 5,241,542 (Nataranjan et al).

With regards to claims 1-30, Nataranjan et al, teach of a frequency hopped multiaccess protocol comprising of first (26 or 28), second (10 or 14) and third (12 or 16)
devices. Nataranjan et al does not disclose expressly a synchronized frequency
hopped schedule according to the claimed invention. However, these claim limitations
would have been obvious in the system of Nataranjan et al, as evidenced by Antunnes
et al, to one of ordinary skill in the art. Antunnes et al teach, in the same field of
endeavor, teach of a synchronized frequency hopped schedule in a communication
system wherein each controller and transceiver has their own hop clock and hop table.
A data interface, which includes commands and procedures for synchronizing the hop

Art Unit: 2635

clocks and hop tables according to the claimed invention, is defined between the controller and the transceiver as shown in figures 1-6A of Antunnes et al. Having hop clocks in both the controller and in the radio minimizes the cost of the data communication interface and to ensure that the quality of the hop clock signals is not comprised by noise present on the interface (Antunnes et al., col. 3, lines 29-33). Clearly, this would be beneficial in the system of Nataranjan et al to one of ordinary skill in the art. Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to have a synchronized frequency hopped schedule in a communication system wherein each controller and transceiver have their own hop clock and hop table and a data interface which includes commands and procedures for synchronizing the hop clocks and hop tables according to the claimed invention in the system of Nataranjan et al, as evidenced by Antunnes et al, because having hop clocks in both the controller and in the radio minimizes the cost of the data communication interface and to ensure that the quality of the hop clock signals is not comprised by noise present on the interface.

Examiner Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L Bangachon whose telephone number is 703-305-2701. The examiner can normally be reached on 4/4/10.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 703-305-4704. The fax phone numbers

Page 7

Art Unit: 2635

Page 8

for the organization where this application or proceeding is assigned is 703-872-9314 for regular and After Final formal communications. The examiner's fax number is 703-746-6071 for informal communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

William L Bangachon Examiner Art Unit 2635

August 12, 2002

MICHAEL HORABIK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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